

ProductSKU: 279700

ProductDescription: FREP®Instrumentation,IndividualandOverallShielded,EPR,CPE,Volts:600V,ULTypeTC,No.of Pairs:2,ConductorSize(AWG):18,ConductorStrands:7/.0152,Ratedat90°Cwetordry

ProductCategory: Instrumentation,Power,Control&Specialty-Instrumentation&ThermocoupleCables-300V&600V-FREPInstrumentation,Shielded,EPR/CPEIndividualandOverallShieldedPairs-IndividualandOverall ShieldedPairs18AWGConductors



ProductConstruction:

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|-----------------|--|
| CableType: | • FREP®Instrumentation |
| ShieldType: | • Shielded |
| InsulationType: | • EPR |
| JacketType: | • CPE |
| Volts: | • 600V |
| Conductors: | • ClassBstrandingperASTMB8
• Tinned,annealedcopperperASTMB33 |
| Insulation: | • ColorCode:perICEAMethod1;pairs-blackandwhite.Oneconductorineachpairis printedalpha-numericallyforeasyidentification
• Flame-retardantEthylenePropyleneRubber(EPR)TypeII |
| Jacket: | • Flame-retardantthermoplasticChlorinatedPolyethylene(CPE) |
| Print: | • GENERALCABLE®BICC®BRAND(WC)FREPXX/SPSXXAWGEPR/CPE
SHIELDEDULTYPE90°CWETORDRY600VDIRBURNSUNRES
MONTH/YEAROFMFGSEQUENTIALFOOTAGEMARK |
| Options: | • Barecopperconductor
• ClassCstranding
• Cross-LinkedPolyethylene(XLPE)insulation
• FREP300V-ULTypePLTC
• FREPII-flame-retardant,thermoplasticLow-Smoke,Zero-Halogen(LSZH)polyolefin jacket
• FREPII-XL-flame-retardant,thermosetLow-Smoke,Zero-Halogen(XL-LSZH)polyolefin jacket
• FREP-XLflame-retardant,thermosetChlorinatedPolyethylene(XL-CPE)jacket
• Otherconstructionsavailableuponrequest |

Product Specification:

No.ofPairs:	• 2
ConductorSize(AWG/kcmil):	• 18
ConductorStrand:	• 7/.0152
MinimumAverageInsulation Thickness(in):	• 0.025
MinimumAverageInsulation Thickness(mm):	• 0.64
MinimumAverageJacket Thickness(in):	• 0.045
MinimumAverageJacket Thickness(mm):	• 1.14
NominalCableOutsideDiameter (in):	• 0.473
NominalCableOutsideDiameter (mm):	• 12.01
ApproximateCopperWeight(lbs per1,000ft):	• 27.4
ApproximateNetWeight(lbsper 1,000ft):	• 83
ApproximateNetWeight(kgper 1,000km):	• 124
StandardPackaging:	• Perorderlength(pol)
IndividualandOverallShielded Pairs:	<ul style="list-style-type: none">• Individualpairsare100%individuallyshieldedwithFlexfoil@aluminum/polyesterin contactwithstrandedtinnedcopperdrainwire• OverallshieldisFlexfoil@aluminum/polyesterincontactwithstrandedtinnedcopper drainwire
Footnote:	• Dimensionsandweightsarenominal;subjecttoindustrytolerance.
UPC#:	• 079407009121
SCC-14:	• 00079407009122
WeightPerUnitofMeasure:	• .0913
ConductorSize(AWG):	• 18

Product Information:

Applications:	<ul style="list-style-type: none">• Infreeair,raceways,ordirectburialinaccordancewithNEC• Inwetordrylocations• PermittedforuseinClassIDivision2industrialhazardouslocationsperNECArticle 501-4(b)forULTypePLTCcables
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- Compliances:
- IEEE383(70,000BTU/hr)
 - OSHAacceptable
 - ICEAT-29-520(210,000BTU/hr)
 - ICEAS-82-552-600V
 - IEEE1202(70,000BTU/hr)CSAFT4
 - ULSubject1277(70,000BTU/hr)
 - ULTypeTC-600V

- Features:
- Excellentmoistureresistance
 - Excellentelectrical,thermalandphysicalproperties
 - Excellentflameresistance-burnstoanash;doesnotexhibitthermoplasticdrip
 - Excellentlowtemperaturecoldbendcharacteristics
 - Excellentresistancetocompressioncuts
 - Lowcoefficientoffrictionforeasypulling
 - Meetscoldbendtestat-35°C
 - Ratedat90°Cwetordry
 - Sunlight-andweather-resistant

- Packaging:
- Materialcuttolengthandshippedoutonnon-returnablewoodreels

TechnicalSpecifications

ReferenceStandards

2002NECChapter3ArticleConversionChart

RecommendedHandling&StoragePractices

VoltageDrop

ACResistance&InductiveReactance

CableInstallation

CommonColorSequence

CablePre-Installation

ShortCircuitCurrent

MetricConversion

Glossary

EmergencyOverloadCurrent

ConductorsforGeneralWiring

Jacket&InsulationMaterials

ConductorReferenceTable

Formula-CopperShield&Bonding(Grounding)Conductors

ICEAAmpacities

CableTesting

NEC&CSADesignations

CSATechnicalSection

ChecklistforSpecifications

